

SAUKA, C. K.: Magter Tech Sci (diss) -- "Investigation of the effectiveness of drainage of temporarily flooded argillaceous and clay soils in the Latvian SSR as a function of the degree of drying". Riga, 1958. 29 pp (Min Agric USSR, Latvian Agric Acad), 220 copies (KL, No 5, 1959, 151)

SAUKA, Ya. Ya.

SAUKA, Ya. Ya. -- "Crystalline Modification of Lead Fluoride." Latvian State U, 1947. In Latvian (Dissertation for the Degree of Candidate of Chemical Sciences)

SO: Izvestiva Ak. Nauk Latvivskov SSR, No. 9, Sept., 1955

SAUKA, YA.

Sauka, Ya. and Ozols, Ya. "Roentgenographic research on crystal structures of tetrathiocyanomercury (II) of copper (II)," Izvestiya Akad. nauk Latv. SSR, 1948, 10, p. 133-36 - In Latvian language - Resume in Russian - Bibliog: 7 items

SO: U-3264, 10 April 1953, (Letopis 'Zhurnal 'nykh Statey, no. 3, 1949)

Jacka, YA.	Va. USS. USS. USS. Sull. Sull. Sull.	Fn149T19
	Varying fluorine formation type is to these amonium USSR/Chem USSR/Chem USSR/Chem Submitted fluo	USSR/ "Crys: Ya. S:
	fluo fluo fluo fluo fluo fluo formu	USSR/Chemistry - Lead Fluoride Crystals, Modifications "Crystalline Modifications of Lead Fluorid Ta. Sauka, Chem Faculty, Latvian State U, "Zhur Obshch Khim" Vol XIX, No 8
	in reaction between lead ions and in solution are responsible for rhombic and cubic crystals. Formet combic dipyramide class. In additionable of crystal from lead nitrate ride solutions, a complex crystal cride solutions, a complex crystal cride solutions a complex crystal cride solutions. 14971 y Lead Fluoride (Contd) and lead nitrate is formed. It is its gradual recrystallization restron of two lead fluoride types. upr 48.	Lead Fluoride Crystals, Mod tions Hifications of 1 Faculty, Latvi
		Lead Fluoride Aug A Citystals, Modifica- tions fications of Lead Fluoride, " aculty, Latvian State U, 5% pp
149719	een lead ions and responsible for crystals. Former class. In addition from lead nitrate a complex crystal of l49119 ontd) Aug 49 In formed. It is stallization restallization refluoride types.	Affluoride,
eta e	for Former Former dddition trate and stal of lightly Aug 49 It is ne-pes.	dd 1

UBSR/Chemistry - Fluorides of Heavy Metals Jan 51

"Lattice Precision Constants and Coefficients of Thermal Expansion of Lead Fluoride," Ya. Ya. Sauka, Anal Lab Latvian State U, Riga

"Zhur Fiz Khim" Vol XXV, No 1, pp 41-48

Detd precision const of lattices of cu and rhombic modifications of lead fluoride by asym method from X-ray photographs of monocrystals. From precision const at 3 different temp calcd linear (in direction of all 3 cryst axes) and cu coeff of thermal expansion.

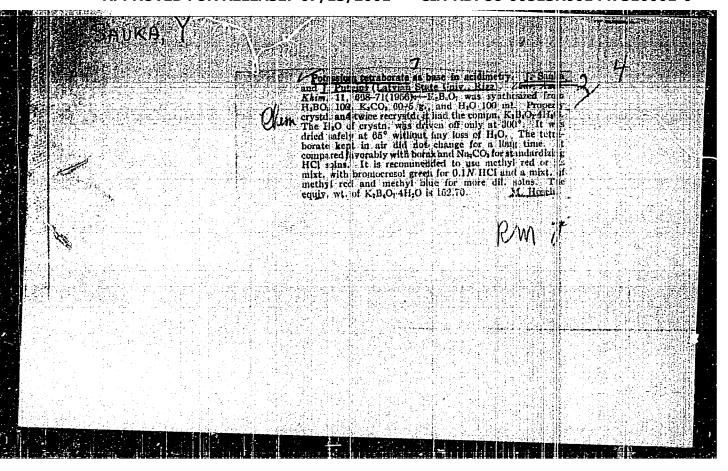
LC

जनसम्बद्धाः स्तः

180T14

Lings and General in Be beit im Reite fin find in der beiter bei beiter bei beiter bei beiter beiter beiter bei beiter be

180TL



AUTHOR:

Sauka, Ya. Ya.

SOV/70-3-1-18/26

TITIE:

Crystals of Potassium Tetraborate Tetrahydrate, K₂B₄O₇.4H₂O (Kristally tetrgidrata kaliyevogo

tetraborata K₂B₄O₇.4H₂O)

PERIODICAL: Kristallografiya, 1958, Vol 3, Nr 1, p 93 (USSR)

ABSTRACT: Crystals of $K_2B_4O_7.4H_2O$ were obtained from a hot solution

of boric acid (100 g in 100 ml $\rm H_2O$) by neutralisation with $\rm K_2CO_3$ (60 g). The compound was recrystallised at room

temperature by the evaporation of a solution of 10-20 g $\rm K_2B_4O_7.4H_2O$ in 100 ml $\rm \tilde{H}_2O.$ Crystals were examined optically

and corresponded to the class D_{2h} = mm2 showing prin-

cipally the forms $\{001\}$, $\{101\}$, $\{011\}$, $\{110\}$

The unit cell dimensions were found from rotation photographs about the three principal axes to be a = 6.83, b = 11.77 and c = 12.80, all ± 0.02 Å. The ratios agreed to 1% with the optical results. Using the measured

Cardl/2

SOV/70-3-1-18/26 Crystals of Potassium Tetraborate Tetrahydrate, $K_2B_4O_7$, $4H_2O$

s.g. of 1.941 (Zh.Anal.Khim., 1956, Vol 11, p 668) found to be 3.94 \(\simeq 4\). There are 1 table, 1 figure, and 3 references, 1 of which is Soviet and 2 German.

ASSOCIATION:

Latviyskiy gosudarstvennyy universitet, khimicheskiy fakul'tet

(Latvian State University, Department of Chemistry)

SUBMITTED:

January 12, 1957

Card 2/2

BE 184

AUTHORS: Sauka, Ya. and Apinit, S. SOV/70-4-2-33/36

Crystals of Lead Selenate (Kristally selenata svintsa) TITLE:

PERIODICAL: Kristallografiya, 1959, Vol 4, Nr 2, pp 262-263 (USSR)

Crystals of $PbSeO_{l_k}$ were produced by allowing solutions of ABSTRACT:

 ${\rm K_2SeO_4}$ and ${\rm Pb(NO_3)_2}$ to diffuse very slowly into each other for some 4 months. Needle-shaped crystals up to 2 mm long were formed. Analysis confirmed their composition. Optical goniometry showed them to be monoclinic prismatic with a:b:c = 0.942:1:0.976 with $\beta = 103^{\circ}04^{\circ}$. X-ray measurements (from layer-line spacings) gave $a = 7.14 \pm 0.01$, $b = 7.37 \pm 0.01$,

 $c = 6.94 \pm 0.01 \text{ kX}$; that is a:b:c = 0.969:1:1.942 (sic - ratio should be 0.969:1:0.942). The density from the literature is 6.37 giving Z = 4. Further rotation photographs showed the lattice to be primitive.

Card 1/2

Crystals of Lead Selenate

SOV/70-4-2-33/36

There are 1 figure, 1 table and 5 references, 3 of which are Soviet and 2 French.

ASSOCIATION: Rizhskiy politekhnicheskiy institut (Riga Polytechnical Institute)

SUBMITTED: November 17, 1958

Card 2/2

SAUKA, Ya.Ya.: KARKLIN', A.Yu.

Precision lattice parameters and thermal expansion coefficients for Co[Hg(SeCN)4] crystals. Kristallografiia 6 no.5:775-777 S-0 '61. (MIRA 14:10)

1. Rizhskiy politekhnicheskiy institut.
(Cobalt compounds) (Crystal lattices)

(MIRA 18:7)

APINITIS, S.K.; SAUKA, Ya.Ya. [Sauka, J.]

Double selenates K2SeO4 · PbSeO4 and (NH/ 2SeO4 · PbSeC4.

Kristallografiia 10 no.2:250.251 Mr-Ap 16;

1. Rizhskiy politekhnicheskiy institut.

SAUKA, Ya.Ya.

Potassium calcium, potassium strontium, and potassium barium octaborate crystals. Zhur. strukt.khim. 1 no.4:453-457 N-D 160. (MIRA 14:2)

1. Rizhskiy politekhnicheskiy institut.
(Potassium calcium borate) (Potassium barlum borate)
(Potassium strontium borate)

SAUKEVICHUS, A. F.

SAUKEVICHUS, A. F.- "Pneumatic-mechanical Dosing of the Supply of Fuel in Carburetors of Self-propelled Tractor Engines." Min of Higher Education USSR, Lithuanian Agricultural Acad, Kaunas, 1955 (Dissertations For Degree of Candidate of Technical Sciences)

SO: Knizhnaya Letopis! No. 26, June 1955, Moscow

SAUKEVICHUS, B. P., Cend Agric Sci (diss) -- "The effect of deep plowing and burrowing on the fertility of mineral soils under conditions of the Lithuanian SSR". Kaunas, 1960. 24 pp (State Committee on Higher and Inter Spec Educ of the Council of Ministers Lith SSR, Lith Agric Acad), 130 copies (KL, No 10, 1960, 134)

FADDRYEV, Boris Vasil'yevich; SAUKHAT, 1.0. redaktor; LUCHKO, Yu.V., redaktor izdatel'stva; ZEF, Ye.M., tekhnicheskiy redaktor.

[Organization of strip mining] Organizatsiia otkrytykh gornykh rabot. Sverdlovsk, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, Sverdlovskoe otd-nie, 1957. 289 p.

(MIRA 10:11)

(Strip mining)

NIKITIN, Yu., SAUKHATA, I.S.

Lithium pegmatites in northern Karelia. Trudy lab. geol. dokem. no.7:109-119 ¹57. (MIRA 11:3) (Karelia--Pegmatites)

STROITELEV, I.A.; SAUKHATAS, I.S.; KASHAYEV, A.A.

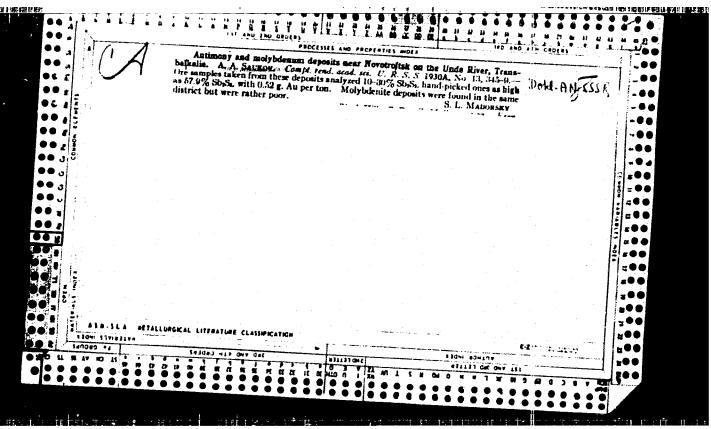
Chemical and metallurgice investigation of converter slags from the Balkhash copper smelting plant. Sbor.trud. VNIITSVETMET no.9:136-147 *65. (MIRA 18:11)

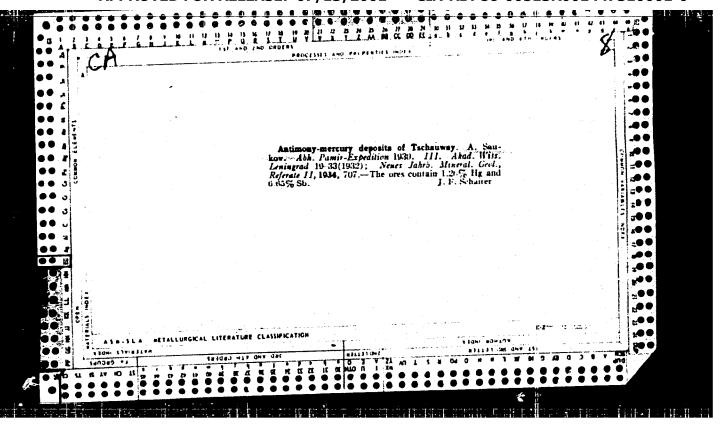
STROITELEV, I.A.; SAUKHATAS, I.S.

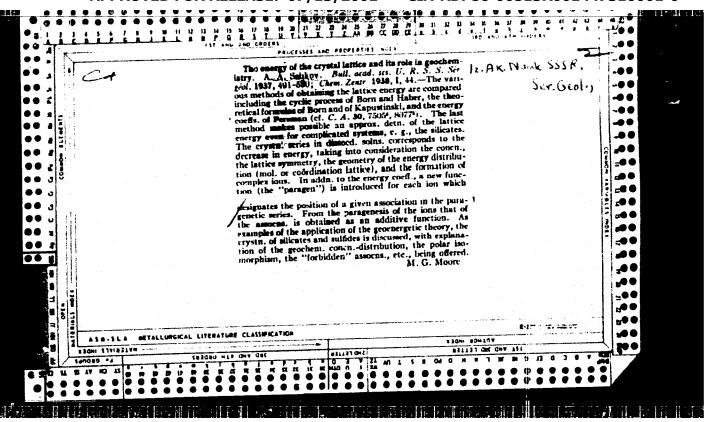
Phase constitution of zinc sinters. Shor.trud. VNII18VETMET no.9:148-158 65. (MIEA 18:11)

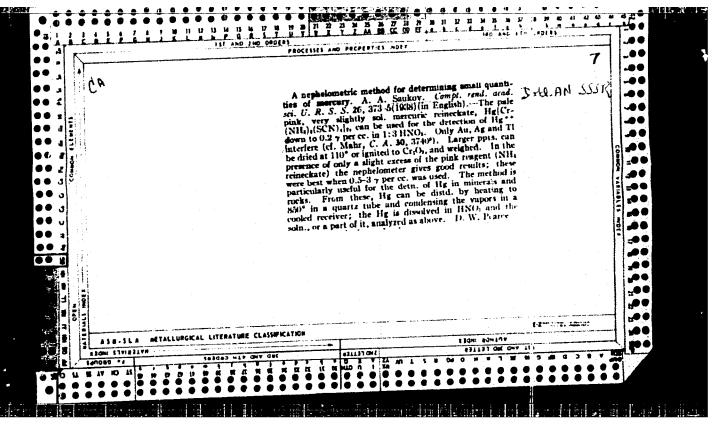
SAUKOV, A.

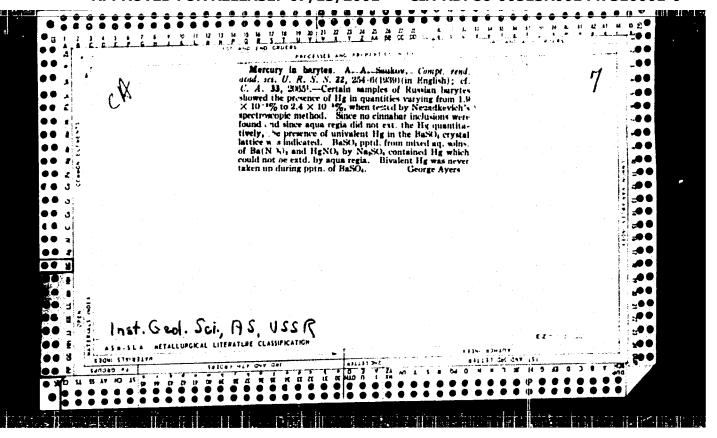
Radioactive elements of the earth. Nauka i tekh mladezh 16 no.10:55 '64.

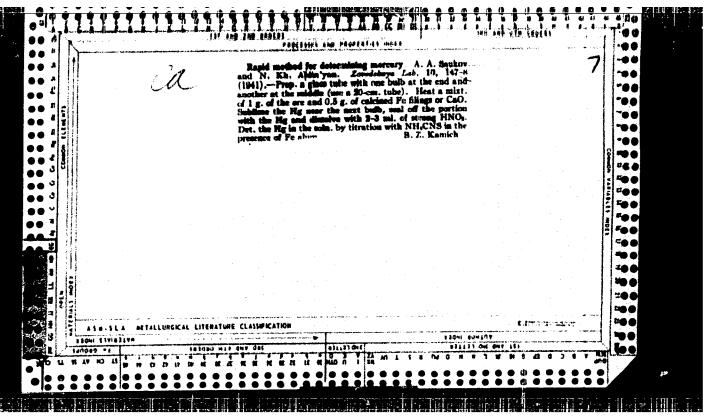












SAUKOV, A. A.

"The Clarke of Mercury in the Earth's Crust," Dok! AN USSR, 32, No 5, 1941.
Inst. Geo. Sci., AS USSR

SAbaCV, A. A.

USSA/Geology | Hineral Deposits - Mercury

1947

"On the Mercury Deposits of Mestern Siberia" by V. A. Kuşnetsov, A. A. Saukov,

SSSR.

"Izw Akad Nauk USSA Ser. Geol! No 2

Locations of deposits at Salair, Ala-tau, Minusinsk, Kuznets Basin, Altaye-Sayansk. A summary of a monograph.

PA 1T115

SAUKOV, A.A.; SHCHERBINA, V.V., otvetstvennyy redaktor; SEMENOVA, H.V., redaktor izdatel'stva; BORISOV, A.S., tekhnicheskiy redaktor

[Geochemistry] Geokhimiia. Izd. 2-oe, ispr. i dop. Moskva, Gos. izd-vo geol. lit-ry, 1951. 381 p.

(MIRA 9:7)

(Geochemistry)

USSR/Geophysics - Obituary May/Jun 52

"Boris Borisovich Polynov (1877-1952)," Obituary by A.A. Saukov and A.I. Perel'man

"Iz Ak Nauk, Ser Geolog" No 3, pp 3-5

In his 75th year, Boris Borisovich Polynov, outstanding scientist, and academician-Communist died on 16 Mar 52. He was distinguished by his classical research in agriculture, geochemistry and geography.

SAUKOV, A. A.

Geochemistry

"Geochemistry." Reviewed by A. I. Perel'man. Priroda 41, No. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED.

SAUKOV, A. A.

Geochemistry

"Geochemistry"., Reviewed by V.I. Lebedev, Zap. Vses. min. cb. 81 No. 1,

Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified

- 1. SAUKOV, A. A.
- 2. USSR (600)
- 4. Mineralogy
- 7. "Selected works." Vol. 1 A. Ye. Fersman. Reviewed by A. A. Saukov. Sov kniga No 1 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

SAUKOV, A.A.

Concerning A.S. Uklonskii's article "Some problems of current mineralogy and geochemistry." Inv. AN SOME. Ser. geol. no.6:50-53 N-D '53. (NLPA 7:1) (Mineralogy) (Uklonskii, Aleksandr Sergesvich, 1888-)

SAUKOV,	A-A -
USSR/Miscellaneo	us - Literature
Card 1/1	
Author	: Saukov, A. A.
Title	: Criticism and Bibliography
Periodical	: Vest. AN SSSR, Ed. 2, 132-136, Feb/1954
Abstract	: The article contains comprehensive critical reviews of the selected works of A. E. Fersman, pertaining to genetic mineralogy and geochemistry.
Institution	
Submitted	

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447310001-0"

SAUKOV, A. A.

USSR/ Scientific Organization

Card 1/1: Pub. 124 - 20/35

Authors: Saukov, A. A., Memb. Corresp. of Acad. of Sc. USSR

Title: Problems of mineralogy and geochemistry

Periodical: Vest. AN SSSR 7, 77-79, July 1954

Abstract: Minutes of the All-Union Conference of mineralogists and geochemists, held on April 5 - 11, 1954 at the Geological Institute of the Acad. of Sc. USSR.

Institution:

Submitted:

SAUKOV, A. A.

"Radiohydrogeological Method in Prospecting for Uranium Deposits," a paper presented at the Atoms for Feace Conference, Geneva, Switzerland,,1955

SOKOLOV, Vasiliy Andreyevich, professor; SAUKOV, A.A., otvetstvennyy redaktor; MIYESSEROV, K.G., redaktor izdatel stva; SOMOROV, B.A., tekhnicheskiy redaktor

[Migration of gas and petroleum] Migratsiia gaza i nefti. Moskva, Izd-vo Akademii nauk SSSR, 1956. 352 p. (MLRA 9:7)

1. Chlen-korrespondent AN SSSR (for Saukov)
(Gas, Natural) (Petroleum)

15-57-4-4668

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4,

p 97 (USSR)

AUTHOR:

Saukov, A. A.

TITLE:

Geochemical Works of A. E. Fersman (O geokhimicheskikh

rabotakh A. Ye. Fersmana)

PERIODICAL: V sb: vopr. geolhimii i mineralogii. Moscow, 1956,

pp 9-18.

ABS TRACT:

Bibliographic entry

Card 1/1

Geochemistry of iron. Khim.v shkole 11 no.6:7-15 N-D '56.
(Irop) (MERA 9:12)
(Geochemistry-Study and teaching)

The first all-Union conference on geochemical methods of prospecting for ore deposits. Izv.AN SSSR. Ser.geol. 21 no.9: 126-128 S *56. (MERA 9:11)

(Geochemical prospecting)

SACKOVA.A.

26-10-7/44

AUTHORS:

Alimarin, I.P. and Saukov, A.A., Corresponding Members of the USSR Academy of Sciences and Baranov, V.I. and Koval'skiy,

V.V., Professors

TITLE:

Problems of Contemporary Geochemistry (Problemy sovremenacy geo-

khimii)

PERIODICAL:

Priroda, October 1957, No 10, pp 53-62 (USSR)

ABSTRACT:

The article deals with the activities of the Institute of Geochemistry and Analytical Chemistry Imeni V.I. Vernadskiy of the AN USSR (Moscow). Contemporary geochemistry researches the distribution and reactions of chemical elements in the various strata of our planet, the origin and absolute age of rocks and deposits and the migration and concentration of elements under the influence of organisms. This young science is closely related to its initiators, Academicians V.I. Vernadskiy and A.E. Fersman. The Institute has 12 laboratories in isotopes, radiochemistry, biogeochemistry, radiogeochemistry, rare elements, geochemistry of single elements, magmatogenic processes, mineralogical structures, organic reagents, spectral analyses, sedimentary rocks and crystallo-chemistry.

Card 1/2

SHCHERBAKOV, D.I., akademik; BABAT, G.I., prof. doktor tekhn. nauk; ZHELTENKOV, V., inzh.; VERD'YE, Zhan, zhurnalist (Frantsiya); RUBASHEV, B.; GRIGOR'YEV, S., insh.; SAUKOV, A.A.; VASIL'YEV, M., insh.; POMAZOVICH, N., prof.; GALINA, L.M., muzykoven-fol'klorist; KERSHNER, D., biolog; BUDYKO, I., prof.; SEMENOV, S., zhurnalist.

Discoveries to be made. Znan. sila 32 no.11:27-32 N '57. (MLRA 10:11)

1. Ispolnyayushchiy obyazannosti uchenogo sekretarya Glavnoy astronomicheskoy observatorii (for Rubashev). 2. Chlen-korrespondent AN SSSR (for Saukov). 3. Direktor Glavnoy geofizicheskoy observatorii im. A.I. Woyeykova (for Budyko).

(Science)

SAUKOV, A.A.; PEREL'HAN, A.I.

Geochemical methods used in the search for deposits of mineral resources. Zap. Vees. min. ob-va 86 no.2:267-280 '57. (MIRA 10:6) (Geochemical prospecting) (Mineralogical chemistry)

SOKOLOV, V.A., otv.red.; SAUKOV, A.A., red.; OVCHINNIKOV, I.M., red.; KUZNETSO;, S.I., prof., red.; ALEKSEYRV, F.A., prof.; red.; GRODEKYAN, A.A., kand.geol.-mineralog.nauk, red.; MOGILEVSKIY, G.A., kand.geologo-mineralog.nauk, red.

[Geochemical methods of oil and gas prospecting; studies of the conference on geochemical methods] Geokhimicheskie metody poiskov neftianykh i gazovykh mestorozhdenii; trudy soveshchaniia po geokhimicheskim metodam, Moskva, aprel 1958 g. (MIRA 12:12)

1. Akademiya nauk SSSR. Institut geologii i razrabotki goryuchikh iskopayemykh. 2. Chlen-korrespondent AN SSSR (for Saukov).

(Geochemical prospecting) (Oil fields) (Gas, Natural)

26-58-2-2/48

AUTHOR:

Saukov, A.A., Corresponding Member of the Academy of Sciences

of the USSR, Moscow

TITLE:

The Evolution of Geochemical Conditions in the History of Earth

(Evolyutsiya geokhimicheskikh usloviy v istorii zemli)

PERIODICAL:

Priroda, 1958, Nr 2, pp 10-16 (USSR)

ABSTRACT:

The author deals with the migration of chemical elements in the Earth's history and the various factors which can and have effected this process. With the gradual decrease in the amount of radioactive elements, the amount of radiogenic heat from the Earth decreased considerably. Five billion years ago the abundance of radiogenic heat greatly intensified the processes of thermal metamorphosis, characteristic of the pre-Cambrian period. Changes take place in absolute and relative amounts of the Earth's chemical content of elements, e.g. stable products of decay are formed from radioactive elements. Biological processes are of great importance in the migration of chemical elements. Organisms concentrate and disperse chemical elements and create new associations of them, e.g. the accumulation of carbon in coal, oil, carbonaceous shale and biogenic carbonate rocks. They also have an indirect effect as oxidizers and

Card 1/3

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447310001-0"

26-58-2-2/48

erturks and a same matters, then the talent to be the same of the

The Evolution of Geochemical Conditions in the History of Earth

reducers. Organisms and organic matter have probably played a large part in the concentration of such ores as vanadium, molybdenum, uranium, lead, copper, cobalt, etc. With the appearance of green plants, the first free oxygen was released into the atmosphere as a result of photosynthesis, with great effect on chemical migration. Iron, previously found in the sea in the form of a ferrous bicarbonate, soluble in water, was oxydized when free oxygen could penetrate to it. The resulting oxide was very insoluble in water so sedimentation took place. Man, when he appeared, affected the organic and geographic world of plants and animals and through that the direction and intensity of chemical migration. This effect was brought about through man's mining, technological, agricultural and engineering activities. By obtaining and using chemical elements, he disturbs the natural paragenesis of the elements and creates new element associations. In the future, man will be more and more concerned with the dressing of poor ores, e.g. the ashes of coal for aluminum, cobalt, scandium, germanium, carbonaceous clay shales for vanadium, lead, molybdenum, uranium, cobalt, copper, extracting sodium, magnesium, chlorine and rare elements from sea and lake water. In conclusion, the author

Card 2/3

26-58-2-2/48

The Evolution of Geochemical Conditions in the History of Earth

states that a quantitative and qualitative change has taken place in the course of history in the factors affecting the migration of elements and through this a basic change in the geochemical processes. He calls for a study of these changes and advocates the formation of a special branch of science to be named "historical geochemistry". There are 1 diagram, 1 table, and 8 references, 7 of which are Soviet.

ASSOCIATION: Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii Akademii nauk SSSR, Moskva (Institute of the Geology of Ore Deposits, Petrography, Mineralogy, and Geochemistry of the USSR Academy of Sciences, Moscow)

Card 3/3

1 Earth--History 2. Geochemical--applications

CIA-RDP86-00513R001447310001-0 "APPROVED FOR RELEASE: 07/13/2001

30-58-3-3/45

AUTHOR: Saukov, A. A., Corresponding Member, Academy of Sciences, USSR

Actual Problems of Geochemistry (Aktual'nyye zadachi geokhimii) TITLE: On the Further Development of Geochemical Methods of Ore

Searching (O dal'neyshem razvitii geokhimicheskikh metodov

poiskov rud)

PERIODICAL: Vestnik Akademii Nauk SSSR, 1958, Nr 3, pp.29-32 (USSR)

ABSTRACT: The search for mineral resources is at present principally

> directed to the discovery of localities situated deep in the earth. Their existence can be determined at the beginning only on the strength of indirect symptoms which accompany these localities and which appear on the earth's surface. The geochemical method which is based on the recognition and interpretation of the so-called aureole of dispersion of the chemical elements, can be applied in these cases. Those aurecles are formed in the vicinity of the localities in the surrounding rocks, the soil, the waters, the air and the plants; they

distinguish by an abnormal high content of the searched elements and appear as consequence of their migration, either

Card 1/4 during the formation of these localities (primary aureole

30-58-3-3/45
Actual Problems of Geochemistry. On the Further Development of Geochemical Methods of Ore Searching

of dispersion), or after their formation (secondary aureole of dispersion) respectively. The theory of the migration of chemical elements which was dealt with in the works by Y. I. Vernadskiy, A. Ye. Fersman, S. S. Smirnov, B. B. Polynov and others, must be considered as theoretical basis of the methods of searching aureoles. The following geochemical methods of searching come forward at present: the metallometric one, the hydrogeochemical one and the absorption of gas. The metallometric test works were commenced already before the war by N. I. Sofronov, A. P. Solovov and others. The hydrogeochemical method was developed only recently by A. A. Brodskiy, A. I. Germanov, A. A. Saukov and others, and has very promising prospects. Both Soviet and foreign practice showed that this method can be successfully applied with the search for localities of hydrogen elements, as copper, molybdenum, lead, zinc, uranium, nickel, cobalt, sulfides and mineral oil. The works by A. P. Vinogradov and D. P. Malyuga played an important part with the creation of the biogeochemical searching methods. The gas absorption which was developed by V. A. Sokolov and others, is applied for the discovery of

Card 2/4

30--58--3 /45 Actual $P_roblems$ of Geochemistry. On the Further Development of Geochemical Methods of Ore Searching

gas-dispersion aureoles of mineral oil, natural gases, uranium and thorium. The following problems for the development of geochemical searching methods are given:

- 1) The complex investigation of different aureoles of dispersion of elements beside localities of mineral resources.
- 2) The investigation of diffusion- and effusion-phenomena of gases by different rocks and also of the solubility of these gases in various natural waters.
- 3) The theoretical elaboration of the basis of a geochemical regional classification of the territory of the USSR.
- 4) The elaboration of the problem of indicating elements, the geochemical indicators.

The Institutes of AS USSR and the AS of the Republics of the Soviet Union and in first place the Institute for Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy, as well as the Institute for Geology of the Ore Collecting Localities, Petrography, Mineralogy and Geochemistry where the works are

Card 3/4

Actual Problems of Geochemistry . On the Further Development of Geochemical Methods of Ore Searching

carried out on a very small scale for the time being, are assigned to play an important part with the elaboration of theoretical principles of the geochemical searching methods.

Card 4/4

AUTHOR: Saukov, A. A. SOV/7-58-6-15/16

TITLE: Chronicle - All Union Conference on Geochemical and

Radiometric Methods of Search and Prospecting for Februleum and Natural Gas Deposits (Khronika - Vsesoyuznoye soveshchaniye po geokhimicheskim i radiometricheskim metodam poiskov i razvedki neftyanykh i gazovykh

mestorozhdenii) II

PERIODICAL: Geokhimiya 1958, Nr 6, pp 610 - 611 (USSR)

ABSTRACT: A survey was given by the reports by E. P. Yasenev "Results

and efficiency of gas surveying in the USSR" and by Yu. M. Yurveskiy "Development of gas-core sampling by electrical means in the USSR". In the resolution the members of the conference pointed out the importance of geochemical and radiometric prospecting methods for the solution of the main task set by party and government: An increase of the production of potential to 350 - 400 million tons within the nex 15 years and an increase of the production of gas to 270 - 320 billion m per year. A number of shortcomings in organization, theoretical

Card 1/2 problems and equipment were found. For future development

Chronicle - All Union Conference on Geochemical SOV/7-58-6-15/16 and Radiometric Methods of Search and Prospecting for Powrolanm and Natural Gas Deposits . II

and improvement the members of the conference suggested a number of measures, among them the establishment of a special coordination committee at the Otdeleniye geologogeograficheskikh nauk AN SSSR (Department of Geological and Geographical Sciences, AS USSR). Representatives of the Ministerstvo geologic i okhrany nedr SSSR (Ministry of Geology and Protection of Natural Resources) of the Gosplan SSSR and the Gosudarstvennyy nauchno-tekhnicheskiy komitet Soveta Ministry SSSR (State Scientific and Technical Committee of the Council of Ministers of the USSR) will be present in this committee

Card 2/2

SAUKOV A.A.

AUTHOR:

Sokolov, V. A., Professor

307/ 30-58-7-36/49

TITLE:

Geochemical and Radiometrical Methods of Search and Prospecting for Deposits (Geokhimicheskiye i radiometricheskiye metody poiskov i razvedki mestorozhdeniy) Transactions of the Conference in the Department of Geological and Geographical Sciences

(Soveshchaniye v otdelenii geologo-geograficheskikh nauk)

PERIODICAL:

Vestnik Akademii nauk SSSR, 1958, Nr 7, pp. 125 - 126 (USSR)

ABSTRACT:

This conference took place April 21st to April 26th. Apart from the members of the academic and scientific branch research institutes representatives of the geological research institutes, of the economic councils of the Gosplan, of the State Committee of New Technology (Gosudarstvennyy komitet po novoy tekhnike), of the Ministry of Geology and Protection of Mineral Resources (Ministerstvo geologii i okhrany nedr) participated as well as scientists from the countries of the people's democracies. The Member, Academy of Sciences, USSR, D.I. Shcherbakov opened the conference. Further reports were delivered by: 1) A.A. Saukov, Corresponding Member of the AS USSR investigated geochemical prospecting methods. 2) V.A. Sokolov analysed the scientific

Card 1/4

Geochemical and Radiometrical Methods of Search and 30-58-7-36/49 Prospecting for Deposits. Transactions of the Conference in the Department of Geological and Geographical Sciences

foundations of geochemical prospecting methods and of the prospecting for gas and mineral oils.

- 3) S.I. Kuznetsov spoke about microbiological prospecting methods of deposits of mineral oil and gas.
- 4) F.A.Alekseyev reported on the radiometrical prospecting methods of deposits of mineral oil and gas.
- 5) A.I.Silin-Bekchurin spoke about the movements of deep ground waters and
- 6) A.B.Ronov about organic carbon in sedimentary rocks of the Russian Plain (Russkaya platforma)
- 7) G.A.Mogilevskiy outlined the present state of the problem concerning the bacteriological anomalies of gas.
- 8) Ye.A.Bars reported on results of hydrochemical research work obtained in the course of prospecting for mineral oil.
- 9) V.A.Kovda and P.S.Slavin reported on geochemical soil data concerning the mineral oil and gas content.
- 10) V.N. Florovskaya spoke about the luminescence method for the purpose of investigation and prospecting for deposits of mineral oil and gas.

11)M.S.Gurevich gave a report on the importance of the geochemical

Card 2/4

- -- -, ,

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447310001-0"

CONSTRUCTABLE OF A DESCRIPTION OF STANDARD PROPERTY AND A DESCRIPTION OF THE STANDARD OF THE S

Geochemical and Radiometrical Methods of Search and SOV/30-58-7-36/49 Prospecting for Deposits. Transactions of the Conference in the Department of Geological and Geographical Sciences

zones of ground water for mineral oil prospecting. 12) V. A. Sokolov, N. M. Turkel 'taub and A. A. Zhukhovitskiy spoke about gasanalytical methods and apparatus for geochemical research. 13)B.P.Yasenev and Yu.M.Yurovskiy reported on gas surveying work in the northern Caucasus (Severnyy Kavkaz). 14) A. Ya. Krems, G.G. Grigor'yev and A.S. Medvedev spoke about the experimental application of geochemical methods of prospecting on the territory of the province of Timano-Pechersk which is rich in mineral oil and natural gas. 15)I.A.Petersil'ye reported on work dealing with gas-containing intrusive massives of the Kola peninsula (Kol'skiy poluostrov). 16)Ye.M.Geller investigated some problems of the geochemical finding of das and mineral-oil-containing deposits in the rock. 17) V.N. Kortsenshteyn spoke about the mechanism of gas deposit formation in the region of Stavropol'. 18)A.L.Geodekyan and G.A.Mogilevskiy gave a survey on research work in the field of geochemical methods carried out abroad.

Card 3/4

Geochemical and Radiometrical Methods of Search and 200730-58-7-36/49 Prospecting for Deposits. Transactions of the Conference in the Department of Geological and Geographical Sciences

Furthermore, reports by foreign participants from the German Democratic Republic, Roumania (Rumyniya), Poland (Pol'sha), Czechoslovakia (Chekhoslovakiya) and Hungary (Vengriya) were heard. The conference found that the theoretical work is carried out on an insufficiently wide scope and that a number of problems is still little investigated. The methods of investigation are practically still insufficiently used. The decisions of the members contain advice for the future.

Card 4/4

SOV/26-59-2-32/53

AUTHOR:

Saukov, A.A., Corresponding Member, AS USSR

TITLE:

Commemoration of A.Ye. Fersman (Pamyati A.Ye. Fers-

mana)

PERIODICAL:

Priroda, 1959, Nr 2, p 106 (USSR)

ABSTRACT:

The author reports on the meeting held on 23 December 1958 at the Presidium of the USSR Academy of Sciences to honor the memory of A. Ye. Fersman. The

gathering was presided over by Academician D.I.

Shcherbakov. He and Associate Members of the AS USSR A.A. Saukov and V.I. Smirnov, Doctors of Sciences G. P. Barsanov and B.A. Fedorovich, outlined the scientific activities of A.Ye. Fersman in the fields of geochemistry, mineralogy, geography and domestic mineral resources. In addition to the titles and contents of some of Fersman's books, the author points out that Fersman was a disciple of V.I. Vern-

adskiy and has devoted important parts of his research activities to the natural riches of the Kola

Card 1/2

VINOGRADOV, A.P., otv.red.; SAUKOV, A.A., red.; VLASOV, K.A., red.; SHCHERBINA, V.V., red.; KHITAROV, N.I., red.; OVCHINNIKOVA, S.V., red.izd-ve; BYKOVA, V.V., tekhn.red.

[Geochemical cycles] Geokhimicheskie tsikly. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr. 1960. (MIRA 14:3)

1. International Geological Congress. 21st, Copenhagen, 1960. (Geochemistry-Congresses)

•	Some notes on hydrothermal solution; and hydrothermal Trudy IGEM no.46:77-82 '60. (Ore deposits)	ore deposits.	
*			
		· · · · · · · · · · · · · · · · · · ·	

GUREVICH, M.G.; KATS, G.V.; OVCHINNIKOV, I.M.; SAUKOV, A.A.

Materials on geochemical characteristics of natural gases associated with ore deposits of the Caucasus. Trudy IGEM no.46:83-91 '60.

(MIRA 14:1)

(Ore deposits)

(Caucasus—Gas, Natural)

SAUKOV, A. A.; BORISENOK, L. A.

"Geochemical cycle of gallium" .

Paper submitted at the International Geological Congress XXI Session - 1960 (Reports of Soviet Geologists) Problem No. 1, 15-24 Aug. 61

_SAUKOV, Aleksandr Aleksandrovich; BORISOVSKAYA, M.A., red.; MAZEL¹, Ye.I. tekhn. red.

[Radioactive elements of the earth] Radioaktivnye elementy Zemli. Moskva, Gos.izd-vo lit-ry v oblasti atomnoi nauki i tekhniki, 1961. 158 p. (MIRA 1:12)

1. Chlen-korrespondent AN SSSR (for Saukov). (Radioactive substances)

VEY DYU-IN' [Wei Tiu-yin]; SAUKOV, A.A.

Physicochemical conditions of the genesis of antimony deposits [w.s.i.E.]. Geokhimiia no.6:480-485 °61. (MIRA 14:6)

1. Chair of Geochemistry, Moscow State University.
(Artimony ore:)

SAUKOV, A, A.

Evolution of the factors determining the migration of the elements in the history of geology. Amilia geol geogr 15 no.4:3-18 0-D '61.

(Geology)

Evolution of factors in the migration of elements in geological history. Izv. AN SSSR. Ser. geol. 26 no.5:3-16 My '61.

(MIRA 14:5)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i goekhimi' 'N SSSR, Moskva.

(Geochemistry)

SAUKOV, A.A.

Thirteenth All-Pakistan Scientific Conference. Vest.AN SSSR 31 no.6:82-83 Je '61. (MIRA 14:6)

1. Chlen-korrespondent AN SSSR. (Pakistan-Science)

SAUFOV, A.A.; PEREL'MAN, A.I., doktor geol.-mineral.nauk

Geochemistry of our time; current problems of its application in the national economy. Priroda 50 no.10:59-66 0 '61.

(MIRA 14:9)

1. Chlen-korrespondent AN SSSR (for Saukov). (Geochemistry)

KUZNETSOVA, V.V.; SAUKOV, A.A.

Occurrences of molybdenum and rhenium in coals of Central Asia. Geokhimiia no.9:750-756 '61. (MIRA 15:2)

1. Department of Geochemistry, M.V. Lomonosov State University, Moscow.

(Asia, Central—Molybdenum)

(Asia, Central—Rhenium)

SAUKOV, A. A.

Chemistry of the earth in the past and present. Khim. v shkole 17 no.4:3-14 Jl-Ag '62. (MIRA 15:10)

1. Chlen-korrespondent AN SSSR.

(Geochemistry)

"Geochemistry of the landscape" by A.I.Perel'man. Reviewed by A.A.Saukov. Priroda 51 no.2:124-125 F'62. (MIRA 15:2)

1. Chlen-korrespondent AN SSSR. (Geochemistry)
(Perel'man, A.I.)

SAUKOV, A.A.

The 14th congress of miners and metallurgists of the German Democratic Republic. Vest. AN SSSR 32 no.11:122-123 N '62. (MIRA 15:11)

1. Chlen-korrespondent AN SSSR.
(Germany, East-Mining engineering-Congresses)
(Germany, East-Metallurgy-Congresses)

SAUKOV, A.A.; AYDIN'YAN, N.Kh.; VINOGRADOV, V.I.

Migration of mercury in the supergene zone. Trudy IG3M no.70:
20-29 '62. (MIRA 15:9)

(Mercury) (Geochemistry)

SAUKOV, A.A.

V.I. Vernaáskii and the radioactivity of the earth. Izv. AN SSSR. Ser.geol. 28 no.3:10-18 Mr '63. (MIRA 16:2)

l. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR, Moskva.
(Radioactivity)

OZEROVA, Nina Aleksandrovna; SAUKOV, A.A., otv.red.; SOLODOV, N.A., red.izd-va; UI'YANOVA, O.G., tekhn.red.; YZGOROVA, N.F., tekhn.red.

[Primary dispersion halos of mercury] Pervichnye oreoly rasseianiia rtuti. Moskva. Izd-vo Akad.nauk SSSR. 1962. 134 p. (Akademiia nauk SSSR. Institute geologii rudnykh mestorozhdenii, petrografii, mineralogii i geokhimii. Trudy, no.72) (MIRA 15:12)

1. Chlen-korrespondent AN SSSR (for Saukov).
(Mercury)

SAUKOV, Aleksandr Aleksandrovich; VALYASHKO, M.G., red.; KARPOVA, I.S., red.; YERMAKOV, M.S., tekhn. red.

[Methods of geochemical prospecting for mineral deposits] Geokhimicheskie metody poiskov mestorozhdenii poleznykh iskopaemykh. Moskva, Mosk. gos. univ., 1963. 248 p. (MIRA 17:2)

SAUKOV, A.A.

Visit to British geochemists. Vest.AN SSSR 33 no.2:92-95 F '63.

(MIRA 16:2)

1. Chlen-korrespondent AN SSSR.

(Great Britain—Geochemical research)

SAUKOV, A.A.; GINZBURG, I.I.; PEREL'MAN, A.I.; AYDIN'YAN, N.Kh.; SHARKOV, Yu.V.

Vladimir Ivanovich Krasnikov; obituary. Leol. rud. mestorozh. 5 no.2:141-142 Mr-Ap '63. (MIRA 16:6)

(Krasnikov, Vladimir Ivanovich, 1907-1962)

SAUKOV, A.A.

Meetings with V.I.Vernadskii. Och.po ist.geol.znan. no.11:72-77

'63.

(Vernadskii, Vladimir Ivanovich, 1863-1945)

VLASOV, K.A.; BELOV, N.V.; VOL'FSON, F.I.; GENKIN, A.D.; GINZBURG, A.I.; LUKIN, L.I.; KORZHINSKIY, D.S.; SALTYKOVA, V.S.; SAUKOV, A.A.; SOKOLOV, G.A.; SHCHERBAKOV, D.I.; SHADLUN, T.N.

Konstantin . .nomovich Nenadkevich, 1830-1963; obituary. Geol. rud. mestorozh. 6 no.1:123-125 Ja-F '64.

(MIRA 17:11)

SAUKOV, A.A. [deceased]

The future as seen by a geochemist. Priroda 54 no.1:12-24
Ja '65. (MIRA 18:2)

1. Colen-korrespondent AN SSSR.

SAUKOV, A.A. [deceased]; BOGOMOLOV, G.V.; BUYALOV, N.I.; DORTMAN, N.B.

Reviews. Sov. geol. 8 no.2:159-163 F '65.

(MIRA 18:12)

SAUKO7, A.A. [deceased]

Unforgettable years...; Sketches of the life and character of Aleksandr Evgen'evich Fersman. Priroda 55 no.1:81-91
Ja '66. (MIRA 19:1)

1. Chlen-korrespondent AN SSSR.

AUTHOR TITLE

DAVIDENKO, V.A., POGREBOV, A.I., SAUKOV, A.I., FA - 2729 The Determination of the Shape of the Excitative Curve of the

Reaction T(d,n)He4.

(Opredeleniye formy krivoy vozbuzhdeniya reaktsii T(d,n)He4 - Russian)

PERIODICAL Atomnaia Energiia, 1957, Vol 2, Nr 4, pp 386-388 , (U.S.S.R.) Reviewed 6/1957

Received 5/1957

ABSTRACT

In the investigations described in the paper under review, the deuterium ions were accelerated by means of an acceleration tube with magnetic analyzer. The measurements were carried out in thick and thin zirconium-tritium targets atdeuteron energies of ho to 225 keV. The thick targets were made of zirconium foils of a thickness of o.o2 to o.o5 mm. The zirconium foil used for making thintargets contained radioactive zirconium (Zr95). The targets were vaporized in vacuum upon a zirconium foundation. The targets were saturated with tritium in a vacuum chamber with a tritium pressure of 20 to 30 mm of mercury. The presentpaper contains a short describtion of how this saturation was carried out. The measurements were carried out with two targets of a thickness of o.ol + o.oo3 micron and o.ol2 2 o.co3 micron respectively. The neutron current produced at the reaction T(d,n)He4 was measured by means of threshold-value indicators of copper. The β -activity of the indicator was measured with the aid of thin aluminum counters . The curve of output N = f(E) has a point of inflection, after which the gradient of the curve rapidly decreases. Therefore the differentiation may lead to considerable errors. For this reason, the data which were obtained with

Card 1/2

APPROVED FOR RELEASE: 07/13/2001 CIA-RDP86-00513R001447310001-0"

an \$ som an abancara a romberble as

ACCESSION NR: AP4000438

\$/0089/63/015/005/0411/0413

AUTHOR: Oparin, Ye. M.; Saukov, A. I.; Shuvalov, R. S.

TITLE: Inclastic scattering of neutrons with an energy of 14 Mev by light nuclei

SOURCE: Atomnaya energiya, v. 15, no. 5, 1963, 411-413

TOPIC TAGS: inelastic neutron scattering, fast neutron spectrum, light nucleus, neutron passage, beryllium, lithium, boron, carbon, nitrogen, oxygen, time of flight technique, plastic scintillator, neutron cross section, reactor shielding, radiation shielding, neutron, scintillation counter, neutron passage through beryllium, neutron passage through lithium, neutron passage through carbon, neutron passage through carbon, neutron passage through oxygen

ABSTRACT: The spectra of inelastically scattered neutrons for lithium, beryllium, boron, carbon, nitrogen, and oxygen at the incident neutron energy of 14 Mev were investigated with the time-of-flight method (see Fig. 1 of Enclosure). A plastic scintillator, measuring

Card 1/16

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001447310001-0

ACCESSION NR: AP4000438

100 mm both in height and in diameter, with a FEU-36 photomultiplier served as the neutron detector. The resolving time of the equipment (2 τ), measured by the gamma peak, is equal to 3.5 x 10⁻⁹ sec. During neutron recording, this time increased to 5.4 \times 10⁻⁹ sec. Specimens of the following compounds measuring 60 x 100 x 100 mm were investigated: lithium hydride (LiH), beryllium, carbon (graphite), boron carbide (B_4 C), melamine (C_6 H_6 N_6), and water. Since the measurements were carried out at an angle of 90° to the initial neutron beam, the presence of hydrogen in the investigated compounds had no significant effect on the measurement results. Because of the insufficient resolving power of the measuring equipment, the discrimination between peaks of elastically and inelastically scattered neutrons was obtained using additional data from "Nuclear Physics," V, 11 (1959). Solid lines in graphs a and b of Fig. 1 represent the spectra of inclastically scattered neutrons calculated from Maxwellian distribution at the temperature $T = 2E_{av}$. The data obtained may be useful in calculations of neutron passage through thick layers of materials. Orig. art. has: 2 figures, 1 table, and 1 formula.

Card 2/6

AUTHOR: Anisimov, I. S.; Nilitin, V. I.; Saukov, A. I.; Ugodenko, A. A.

TITIE: Total cross sections for the interaction of neutrons with herizene, toluol, and sodium acetate in the energy interval 0.03--0.5 eV

SOURCE: Atomnaya energiya, v. 18, no. 3, 1965, 277-278

TOPIC TAGS: neutron slowing down, organic moderator, benzene, toluol, sodium acetate, neutron cross section

ABSTRACT: The investigation described is of interest because the chemical bond of the hydrogen atoms in moderator molecules must be taken into account in calculations of the slowing down of neutrons with energies lower than 1 eV in hydrogen-containing moderators. The total cross sections of interaction between the neutrons and benzene, toluol, and sodium acetate was measured by the transmission method. The neutrons were produced by the T(d, n)HeV reaction on a tritium target in a pulsed accelerator tube. The neutron detector was a mixture of 30% LAF enriched with Li⁵ and 70% ZnS. The neutron spectra before and after passing through the investigated substances were measured by the time of flight method.

Card 1/2

L 51070-65 ACCESSION NR: AP500912	40. 40. 10. 45. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10		0
benzene. The ratio can to 0.00076/E ² (E - neutron substances as functions of	ections of the bound and fre- and very close to that obta- be described by the empirical energy. eV). The relative of the initial energy, per a suption that the dependence	ined elsewhere for wall formula F(2) = 1 + energy losses in the ingle, collision, were of the neutron losses	ter and 0.073/E - three e also on the
cross section is the same	for the investigated substant A formula.	inces and for hater.	Orag.
cross section is the same art. has: 2 figures and ASSOCIATION: None	for the investigated substantial formula.	ances and for usiter.	
cross section is the same art. has: 2 figures and	for the investigated substantial formula. ENCL: 00	ances and for maker.	Urig.
cross section is the same art. has: 2 figures and ASSOCIATION: None	l forgula.		VFIg.
cross section is the same art. has: 2 figures and ASSOCIATION: None SUBMITTED: 12Feb64	l formula. ENCL: 00		Urig.

SAUKOV, M. K., and DITYATKOVSKIY, Ya. M.

"Centrifugal Casting of Large Cylindrical Parts From High-Alloy Steel," p. 61. in book <u>Mechanization and Automatic Control of Founding Processes</u>, Leningrad, 1957, 22hpp.

Cha: ge in the power supply circuit of the LIG-60 generator.
Avtom., telem. i sviaz' 8 no.11:40 N 164.

(MIR4 17:12)

1. Lavoratoriya signalizatsii i svyazi Severo-Kavkizskoy dorogi.

SAUKCVA, L. A., BERGUIE, A. I. - Peremetka I Snovka Pryazhi Na Bystrokhodnykh Machinakh. Tekstil. Prom-St: 1949, No. 8, s. 20-21.

SO: Letopis' Zhurnal'nykh Statey, Vol. 36, 1949.

"APPROVED FOR RELEASE: 07/13/2001 CIA-I

CIA-RDP86-00513R001447310001-0

ONIKOV, E.A., starshiy nauchnyy sotrudnik; SAUKOVA, L.A., mladsniy nauchnyy sotrudnik; GORBUNOVA, Ye.O., mladshiy nauchnyy sotrudnik

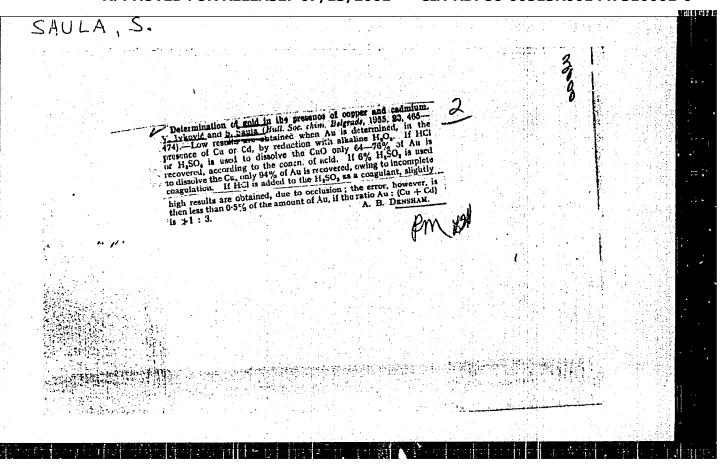
Geometric method of analysis and construction of linen weave fabrics. Tekst.prome 24 no.1:50-55 Ja 64. (MIRA 17:3)

1. TSentral'nyy nauchno-issledovatel'skiy institut khlopchatobu-mazhnoy promyshlennosti.

SAUL, B. R.

Increasing the operating range of a mobile television station. Vest. sviazi 25 no.219-10 F 165. (MIRA 18:6)

1. Glavnyy inch. Ministerstva svyazi Estonskoy SSR.



SAUL'CHENKO, B., in thener.

Machine tool for making partition slabs. Stroitel' 2 no.8:12 Ag

(MLRA 9:12)

56. (Concrete construction--Formwork)

(2) 1 1 (2) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
L 37196-66 EWT(d)/EWT(m)/ENP(f)/T-2 ACC NR. AT6019148 (N) SOURCE CODE: UR/2807/65/000/224/0057/0065	
AUTHOR: Rozanov, N. S.; Saul', T. K.	
ORG: None *	
TITLE: Measuring temperatures in trawler diesel engine pistons	
SOURCE: Tallinn. Politekhnicheskiy institut. Trudy, Seriya A, no. 224, 1907. Sacriya Source: Tallinn. Politekhnicheskiy institut. Trudy, Seriya A, no. 224, 1907. Sacriya Source: Tallinn. Politekhnicheskiy institut. Trudy, Seriya A, no. 224, 1907. Sacriya A, no. 224, 1907. Sacri	
ABSTRACT: A method is proposed for measuring temperatures in trawler diesel engine pistons. Two types of temperature measurement must be considered in studying the thermal stresses of a piston: 1. determining the temperature on the outer surface of the piston head for studying the heat exchange between the gases and the head, and 2. depiston head for studying the heat exchange between the gases and the head, and 2. depiston head for studying the heat exchange between the gases and the head, and 2. depiston head for studying the heat exchange between the gases and the head, and 2. depiston head for studying the heat exchange between the gases and the head, and 2. depiston head for studying the heat exchange between the gases and the head, and 2. depiston head for studying the heat exchange between the gases and the head, and 2. depiston head for studying the heat exchange between the gases and the head, and 2. depiston head for studying the heat exchange between the gases and the head, and 2. depiston head for studying the heat exchange between the gases and the head, and 2. depiston head for studying the heat exchange between the gases are proposed for carrying the heat exchange head.	
discussed such as measuring the temperature of a piston with respect to the discussed such as measuring the temperature of a piston with respect to the discussed such as measuring the temperature of a piston with respect to the discussed such as measuring the temperature of a piston with respect to the discussed such as measuring the temperature of a piston with respect to the discussed such as measuring the temperature of a piston with respect to the discussed such as measuring the temperature of a piston with respect to the discussed such as measuring the temperature of a piston with respect to the discussed such as measuring the temperature of a piston with respect to the discussed such as measuring the temperature of a piston with respect to the discussed such as measuring the temperature of a piston with respect to the discussed such as measuring the temperature of a piston with respect to the discussed such as measuring the temperature of a piston with respect to the discussed such as measuring the discussion of the discussion o	
UDC: 621. 431. 74:62. 242:536. 50	ا
Card 1/2	

L 37196-66

ACC NR: AT6019148

determined to an accuracy of 10-50°C in a temperature range of 120-950°C. The principal disadvantages of this method are the requirements for opening the engine and narrowing the fusion temperature range, while the main advantage is the absence of mechanical and electrical connections for registering temperature. The main advantage of the thermocouple method is the ability to take measurements at various points under varying operating conditions. The thermocouple method was employed for measuring the temperature of the piston head and the "fuse" method was used to verify the results. Since both continuous and periodic connections with registering equipment can be used in the case of the thermocouple method, the periodic connection was selected. A figure is given showing the temperature measuring equipment. The results show that the thermocouple method, as tested on the OHFD24 diesel engine, is fully reliable and accurate. The engine functioned for 250 hours together with the thermocouple measuring apparatus on a test stand under varying conditions. No measurement errors were coserved during this time. The thermocouple temperature measuring equipment can be recommended as reliable for use over long periods of testing. This method has also been used for taking piston temperature measurements on other engines. Orig. art. has: 6 figures.

SUBM DATE: none/ ORIG REF: 001/ OTH REF: 001

Card 2/2/11/12